Measurement Word Problems

Explore ideas and representations

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Change to one unit before combining measurements.
2 L 350 mL plus 450 mL is $2{,}350 + 450 = 2{,}800$ mL.
For time, from $2{:}45$ to $3{:}20$ is $15 + 20 = 35$ minutes.
For money, 1 dollar $= 100$ cents.

Worked example

A 3-m rope loses 85 cm. Find the length left in centimeters.

1. 3 m $= 300$ cm.
2. $300 - 85 = 215$ cm remain.
3. $215 + 85 = 300$ cm checks the cut.
Answer: 215 cm.

Practice Problems

Show your thinking.

1. A hiker walks 2 km 300 m, then 850 m. Find the total in meters.

2. A jug has 2 L of juice. Fill 3 cups of 250 mL. Find the juice left in milliliters.

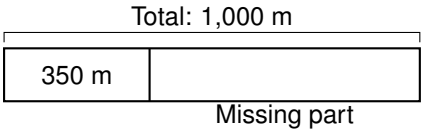
3. A 4-kg sack loses $1{,}250$ g. Find the mass left in grams.

4. A child has 10 dollars and buys 3 pens costing 175 cents each. Find the change in cents.

5. A lesson starts at $9{:}35$ a.m. and lasts 50 minutes. Find the ending time.

6. Fix: 1 L 200 mL minus 300 mL is 900 L.

7. Complete the trail bar. What distance belongs in the missing part?



8. Why must 2 m and 35 cm not be added as $2 + 35 = 37$ cm? Give the correct total.

Answer Key

1. 3150 m.
2. 1250 mL.
3. 2750 g.
4. 475 cents.
5. $10{:}25$ a.m.
6. 900 mL.
7. 650 m.
8. 235 cm.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. 2 km 300 m $= 2{,}300$ m.
2. $2{,}300 + 850 = 3{,}150$ m.
3. $3{,}150 - 850 = 2{,}300$ m checks it.

Problem 2

1. 2 L $= 2{,}000$ mL.
2. The cups use $3 \times 250 = 750$ mL.
3. $2{,}000 - 750 = 1{,}250$ mL remain.

Problem 3

1. 4 kg $= 4{,}000$ g.
2. $4{,}000 - 1{,}250 = 2{,}750$ g.
3. $2{,}750 + 1{,}250 = 4{,}000$ g checks it.

Problem 4

1. 10 dollars $= 1{,}000$ cents.
2. The pens cost $3 \times 175 = 525$ cents.
3. $1{,}000 - 525 = 475$ cents change.

Problem 5

1. From $9{:}35$ to $10{:}00$ is 25 minutes.
2. $50 - 25 = 25$ minutes remain.
3. 25 minutes after $10{:}00$ is $10{:}25$ a.m.

Problem 6

1. 1 L 200 mL $= 1{,}200$ mL.
2. $1{,}200 - 300 = 900$ mL.
3. The subtraction used milliliters, so the answer unit is mL, not L.

Problem 7

1. The labeled left part is 350 m of the $1{,}000$ m total.
2. $1{,}000 - 350 = 650$ m. Write 650 m in the blank right part.
3. $350 + 650 = 1{,}000$ m verifies the bar.

Problem 8

1. 2 m $= 200$ cm.
2. The equal-unit addition is $200 + 35 = 235$ cm.
3. 235 cm regroup as 2 m 35 cm, checking the total.

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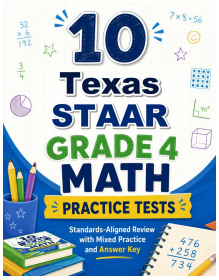

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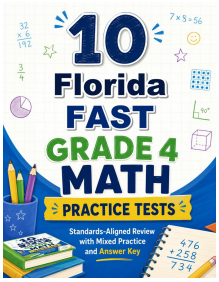

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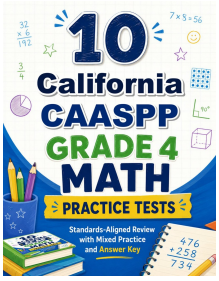

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